

SHLYAFER, T.P.

Comparative characteristics of the electrical activity of
cerebral cortex neurons in white rats and guinea pigs.
Fiziol. zhur. 50 no.8:1065-1070 Ag '64.

(MIRA 18:12)

l. Otdel sravnitel'noy fiziologii i patologii Instituta
eksperimental'noy meditsiny AMN SSSR, Leningrad.

EPSHTYIN, G.V.; SURGUROV, V.I., Inzh.; SHLYAKHENTER, A.M., Inzh.

Leather Products Combine named after V.I. Lenin (Rostov-on-Don).
Kozh.-tstv. prom. 6 no.8;21-23 Ag '64. (MIRA 17:10)

1. Kozhevennoye proizvodstvennoye ob"yedineniye im. V.I. Lenina,
Rostov-na-Donu. 2. Direktor Kozhevennogo proizvodstvennogo ob"yedineniya
im. V.I. Lenina, Rostov-na-Donu (for Epshteyn).

GIM BOHENKO, V.M., SHLYUFIRNEI, A.M.

New developments in the processing of hides and skins. Koch...
obuv. prom. 6 no. 9, 26-28 S '64. (MURA 17, 12)

KATSENOVICH, A.L.; AL'TMAN, B.M.; SHLYAFIRNER, N.M.

Vitamin C metabolism in typhus. Klin.med., Moskva 29 no.2:91 Feb 51.
(CIML 20:7)

1. Of the Clinic for Infectious Diseases (Director--Honored Worker
in Science Prof. A.L. Katsenovich), Tashkent Medical Institute
imeni V.M. Molotov, Tashkent.

The energy levels of the neptunium-237 nucleus and the decay of americium-242m. S. A. Buranov and K. N. Shlyvain. Sessiya Akad. Nauk S.S.R. po Fiz. Nauk 1955, 251-68 (English summary, 268-9).—The radiations of U^{237} , Am^{241} , and Am^{242m} were studied by using a magnetic double-focussing β -ray spectrometer, and other instruments. U^{237} and Am^{241} were used to det. the energy levels of the Np^{237} nucleus; the decay scheme for Am^{242m} was detd. U^{237} was obtained from $U^{232}(n,\gamma)U^{237}$, Am^{242m} from $Am^{240}(n,\gamma)Am^{242m}$. The Am^{241} was chemically sepd. from Pu enriched with Pu^{241} . The U^{237} electron

spectrum was studied from 1 to 300 e.kv. Its β -decay is accompanied by the radiation of many conversion and Auger electrons. There are two β -components with end-point energies of $E_{\beta 1} = 84 \pm 5$ e.kv. and $E_{\beta 2} = 249 \pm 5$ e.kv. in the decay, and the following transitions of the Np^{237} nuclei: $E = 26, 33, 43, 60, 69?, 101, 124?, 165, 193?, 208, 208, 330, 370$, and 433 e.kv. The following transitions of Np^{237} were also detd. in studying the electron spectrum of Am^{241} : $E_{\gamma} = 26, 33, 43, 55, 60$, and 69 e.kv. From these values the following energy levels of the Np^{237} nucleus were detd.: $0, 33.22, 59.62, 103.55, 158.55, 227, 268$, and 433 e.kv., the first 6 levels corresponding to the spins $5/2\pm, 7/2\pm, 5/2\pm, 7/2\pm, 9/2\pm, 11/2\pm$. The electron spectrum of Am^{242m} was investigated from 1 to 700 e.kv. Ten conversion lines and 3 Auger-electron groups were detected; the intensities decreased with the half-life which is approx. 16 hrs. There are two β -components occurring in the decay of $Am^{242m} \rightarrow Cm^{242}$, with $E_{\beta 1} = 625 \pm 5$ e.kv. (49%) and $E_{\beta 2} = 667 \pm 5$ e.kv. (33%). γ -ray $Cm^{242} E_{\gamma} = 42$ e.kv. Measurements with a proportional counter have shown that one mode of decay of Am^{242m} is electron capture; this decay amts. to about 18% and gives Pu^{241} . The transition $Am^{242m} \rightarrow Am^{241}$ is weak. The β -transition energy of Am^{242m} to the excited level of Cm^{242} is $E_{\beta} = 580$ e.kv. A decay scheme for Am^{242m} has been plotted with Am^{242m} having a 0 spin; the spin of the ground state is 4 or 5. W. J.

SHLYAGIN, K.N.

81-PMT

ATOMNAYA ENERGIYA

Atomic Energy

No. 1, 1956

BARANOV, S. A.,

SHLYAGIN, K. N.: Energy levels of the nuclei Pu²³⁸ and Pu²³⁹.

*recd Sci
Phys*
The investigations and results are described under the following headings: apparatus and preparation of radioactive sources; study of the disintegration of Np²³⁸ (measurement on a beta spectrometer; measurement on a scintillation spectrometer and a proportional counter); study of the disintegration of Gm²⁴²; diagram of the Pu²³⁸ nuclear levels; disintegration of Np²³⁹; diagram of the Pu²³⁹ nuclear levels.

PMF
JCH

D

SHLYAGIN, K.N.

BARANOV, S.A.; MALOV, A.F.; SHLYAGIN, K.N.

Double-focusing beta-spectrometer. Prib. i tekhn. eksp.
no.1:3-12 J1-Ag '56.

(MLRA 10:2)

(Electrons--Spectra) (Beta rays--Spectra)
(Spectrometer)

SHLYAGIN, K. N.

B-2

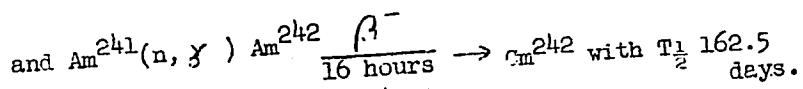
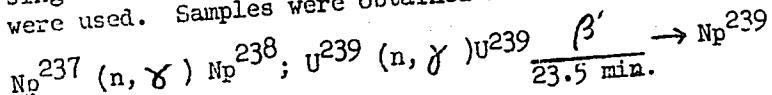
USSR/Physical Chemistry - Nucleus of an Atom.

Abs Jour : Referat Zhur - Khimiya, No 6, 25 March 1957, 18094

Author : Baranov, S.A. and Shlyagin, K.N.
Title : Energy Levels of Pu^{238} and Pu^{239} nuclei.

Orig Pub : Atom. energiya, 1956, No 1, 52-65

Abstract : In order to study the dissociation of Np^{238} , Np^{239} and Cm^{242} a magnetic beta-spectrometer with double focusing and a luminescent gamma-spectrometer with NaI(Tl) were used. Samples were obtained following the reactions



The measuring of beta-spectrum of Np^{238} revealed at

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Card 1/2

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SHLYAGIN, K.N.

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3607
BETA SPECTRUM OF Pu²⁴¹. K. N. Shlyagin. Invest.
Akad. Nauk S.S.R. Ser. Fiz. 10, 631-5 (1956) Aug. (In
Russian)

For the heavy elements in the Mendeleev periodic system $\Delta E_{Z,Z+1}$ approaches the value of -15 to 25 kev, consequently it is feasible to expect that the electron shell transitions would affect the pattern of the β spectra whose boundary energy is near $\Delta E_{Z,Z+1}$. Studies were undertaken to find if β spectra would be totally shifted into the high energy levels at the value $\Delta E_{Z,Z+1}$. The β spectrum of Pu²⁴¹ with the roughly measured upper spectra boundary $E_0 = 10$ to 20 kev and half decay period of $T = 10$ to 14 years was taken as the subject of investigation. (R.V.J.)

SHLYAGIN, K.N.

✓ 820 THE ELECTRON SPECTRUM OF U^{237} S. A. Baranov and
K. N. Shlyagin. Soviet Phys. JETP 3, 200-5(1956) Sept.
(In English). Zhur. Eksppl. i Teoret. Fiz. 30, 225-30(1956)
Feb. (In Russian)

The electron spectrum of U^{237} was investigated on a $\pi\sqrt{2}$
focussing angle magnetic β spectrometer, beginning with
electron energies of 1 kev. Two components of the spectrum
were determined, with energy limits $E_{OA} = 84$ kev (26%)
and $E_{CB} = 249$ kev (74%). The following γ transitions for
 N_p^{237} were computed from the conversion electron lines;
26; 33; 43; 60; 69(?); 101(?); 124(?); 165; 193(?); 208; 257;
331; 370 and 436 kev. A tentative decay scheme of U^{237} is
given. (auth)

Category : USSR/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 527

Author : Shlyagin, K.N.
Title : Electron Spectra of Pu²³⁹, Pu²⁴⁰ and Pu²⁴¹

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 5, 817-823

Abstract : A magnetic beta spectrometer with 180° focusing was used to study the electron spectra of two specimens of Pu, having various contents of Pu²³⁹, Pu²⁴⁰ and Pu²⁴¹. The use of thin celluloid films and radioactive sources makes it possible to plot the spectrum, starting with an energy of approximately 1 kev. The conversion lines of the electrons were used to determine the energy of the gamma transitions of the U²³⁵ and U²³⁶ nuclei: these values are 3 (?), 12.5, 38.3, 50.8, and 117 (?) kev for U²³⁵ and 44.6 kev for U²³⁶. The beta spectrum plotted for Pu²⁴¹ is allowed in form and has an upper boundary $E_0 = 20.8$ kev.

Card : 1/1

Low Energy γ -Transitions in Tu^{169} .

56-1-5/56

investigated the relative intensity of some Auger (Ozhe) transitions. The Auger (Ozhe) transition $L_I \rightarrow M_I M_I$ is assumed to be the most intensive Auger (Ozhe) transition of this series. The Auger (Ozhe) lines corresponding to the conversion lines (5,6,7 etc.) have a very low intensity and do not considerably distort the form of these lines. The conversion γ -line with the energy 8,32 kilo electron volt is observed in all M- and N-subshells, and the conversion of the γ -rays with the energy 20,65 kilo electron volt is observed in the L-, M-, and N-subshells. The last mentioned transition is a magnetic dipole transition. For the γ -transition 63,12 kilo electron volt only the K-conversion line l is shown here. Other γ -transitions than those given here were not observed in the energy interval from 3 up to 70 kilo electron volt. There are 1 figure, 2 tables, and 13 references, 2 of which are Slavic.

ASSOCIATION: AN USSR (Akademiya nauk SSSR)
SUBMITTED: July 4, 1957
AVAILABLE: Library of Congress

Card 2/2

SHLYAGIN, KIV

~~REF ID: A6514~~

176

PHASE I BOOK EXPLOITATION SCV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurazulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M. Lebanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talamin,

Cand-1/20

Transactions of the Tashkent (Cont.)

SCV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Dabdkhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

Card 2/20

176

Transactions of the Tashkent (Cont.)

SOV/5410

instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

9

Card 3/20

13

| | |
|--|----------|
| Transactions of the Tashkent (Cont.) | S07/5410 |
| Tinov, V. S., V. A. Grigor'ev, and I. A. Korovina [Ministry of Health USSR]. Some Applications of Spectral Analysis | 377 |
| Makarova, Ye. S., and T. S. Afanas'yev [Ministry of Health USSR]. Use of Special Ionization Chambers for Measuring the Activity and Controlling the Purity of Radioactive Preparations | 382 |
| Serebryakov, K. N. [Ministry of Health USSR]. Analysis of the Irradiation of Radioactive Preparations | 389 |
| Borkarev, V. V., and V. A. Bashenov [Ministry of Health USSR]. Method for Measuring Beta-Active Gases by Means of Counters | 396 |
| Obutwina, M. N., V. I. Levin, and Ye. A. Tikhomirova [Ministry of Health USSR]. Obtaining Arsenic-77 Without a Carrier From Germanium Irradiated by Neutrons | 402 |
| Levin, V. I., and N. G. Serebryakov [Ministry of Health USSR]. Preparing Preparations With Radioactive Isotopes for Radiotherapy | 410 |

Carri 18/20

S/847/62/000/000/003/003
B144/B186

AUTHORS: Tronova, I. N., Tikhomirova, Ye. A., Shlyagin, K. N.

TITLE: Obtaining promethium¹⁴⁹ without a carrier

PERIODICAL: Metody polucheniya radioaktivnykh preparatov; sbornik statey
(Methods of producing radioactive preparations; collection
of articles). Moscow, Gosatomizdat, 1962. 170 p. illus.,
biblio 147 - 160

TEXT: Ion exchange chromatography was used to isolate carrier-free Pm¹⁴⁹ from Nd₂O₃ irradiated with slow neutrons. The initial material was Nd₂O₃ tagged with Nd¹⁴⁷ and Pm¹⁴⁷. Dry KY-2 (KU-2) cationite resin (100-150 mesh) was kept standing for 24 hrs with distilled water and then purified from organic and Fe impurities by washing it with NaOH, distilled H₂O and 3 N HCl. Subsequently it was transformed into the ammonium form by washing it for 30-40 min. with a solution of 15% NH₄Cl + NH₃. The Cl ions were removed by H₂O and a 0.04 M NdCl₃ solution (pH≈2) which contained Pm¹⁴⁷ and Nd¹⁴⁷ as indicators was passed through the 50-cm resin layer. Ethylene Card 1/4 ✓

Obtaining promethium 149 ...

S/847/62/000/000/003/003
B144/B186

(3) The dry residue in the Pm 149 preparation was 1 mg/mcu. (4) The second peak corresponds to Nd 147 without radioactive impurities. There are 7 figures and 4 tables.

Fig. 3. Curve of elution of Nd $_2$ O $_3$, irradiated with slow neutrons, using II as eluent. Cationite KU-2 in the NH $_4^+$ -form; size of the resin particles 100 - 150 mesh.
Legend: (a) activity, $\times 10^7$ pulse/min; (b) volume, ml.

Card 3/4

SHLYAGIN, K. N.

PHASE I BOOK EXPLOITATION

SOV/6333

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

TABLE OF CONTENTS:

Card 1/2 /

Techniques for the Measurement (Cont.)

SOV/6333

| | |
|---|-----|
| Turkin, A. D. Measurement of the Concentration of β -Emitting Gases and the Determination of Their Isotopic Composition by Means of Spherical Ionization Chambers | 134 |
| Lavrenchik, V. N. Measurement of the γ - and β -Activity of Aerosols | 139 |
| Ivanov, Yu. F., <u>K. N. Shlyagin</u> , and P. N. Feoktistov. Magnetic β - and γ -Spectrometer | 156 |
| Ivanov, Yu. F., I. A. Rumer, and <u>K. N. Shlyagin</u> . Magnetic Spectrometer BPP-3 | 168 |
| Bazhenov, B. A., Yu. M. Golubev, <u>K. N. Shlyagin</u> , P. N. Feoktistov, and G. V. Yakovlev. Scintillation γ -Spectrometer With a Multichannel Analyzer and a Unit for the Automatic Plotting of Spectra | 182 |
| Bazhenov, V. A., Yu. M. Golubev, and <u>K. N. Shlyagin</u> . Scintillation Spectrometer Counter With Allowance for Dead-Time Effect | 202 |

Card 4/5

Shlyagin, K.N.

37

PHASE I BOOK EXPLOITATION

SOV/6333

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

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COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

TABLE OF CONTENTS:

Card 1/52

Techniques for the Measurement (Cont.)

SOV/6333

- Turkin, A. D. Measurement of the Concentration of β -Emitting Gases and the Determination of Their Isotopic Composition by Means of Spherical Ionization Chambers 134
- Lavrenchik, V. N. Measurement of the γ - and β -Activity of Aerosols 139
- Ivanov, Yu. F., K. N. Shlyagin, and P. N. Feoktistov. Magnetic β - and γ -Spectrometer 156
- Ivanov, Yu. F., I. A. Rumer, and K. N. Shlyagin. Magnetic Spectrometer BPP-3 168
- Bazhenov, B. A., Yu. M. Golubev, K. N. Shlyagin, P. N. Feoktistov, and G. V. Yakovlev. Scintillation γ -Spectrometer With a Multichannel Analyzer and a Unit for the Automatic Plotting of Spectra 182
- Bazhenov, V. A., Yu. M. Golubev, and K. N. Shlyagin. Scintillation Spectrometer Counter With Allowance for Dead-Time Effect 202

Card 4/5 2

Techniques for the Measurement (Cont.)

SOV/6333

Bazhenov, V. A., E. V. Kalinina, and K. N. Shlyagin, Adjustment
of a Lens Spectrometer by Means of a Mobile Gas-Discharge
Counter

206

AVAILABLE: Library of Congress

SUBJECT: Nuclear Chemistry

Card 5/5 2/2

BN/fm/svb
6-27-63

SHLYAGO, I.M., polkovnik intendantskoy sluzhby

Transport of wounded and sick on ships. Voen.-med. zhur. no.5:84-
87. My '60. (MIRA 13:7)

(TRANSPORT OF SICK AND WOUNDED)

SHLYAGO, I.M.

Equipping submarines with sterile material. Voen.-med. zhur. no.8:
66-67 Ag '61. (MLR 15:2)
(SUBMARINE MEDICINE) (SURGERY EQUIPMENT AND SUPPLIES)

SHLYAK, M., inzh.

Using gas for drying and heating rooms in winter. Na stroi. Mosk.
l no. 9:4-5 S '58. (MIRA 11:12)
(Building--Cold weather conditions) (Drying apparatus)

SHLYAK, M., inzh.

Using gas in building under winter conditions. Stroitel' no.11:24
' 58. (MIRA 11:12)
(Building--Cold weather conditions) (Drying apparatus)

SHLYAKHANOV, L. D.

Afforestation

Ukrainian foresters in the fight for the Stalin plan. Les i step' 4 No. 1, 1952.

1952
9. Monthly List of Russian Accessions, Library of Congress, May ~~1952~~, Uncl.

ARTEMENKO, A.K.; MALYUGIN, T.T. [Maliuhin, T.T.]; TOLCHEYEV, B.P. [Tolcheiev, B.P.]; TYUKOV, S.Yu.; SHLYAKHANOV, I.D.; SOLDATOV, A.G., red.; TOKAR, L.O., red.; DEREV'TANKO, G.S., tekhn.red.

[Forestry and shelterbelt afforestation] Lisivnytstvo i polezakhysne lisorozvedennia. Za red. A.N. Soldatova. Kyiv, Derzh. vyd-vo : sil's'kohospodars'koi lit-ry UkrSSR, 1956. 359 p. (MIRA 12:3).
(Windbreaks, shelterbelts, etc.)

SPITSYN, N.; SHLYAKHETKO, V.

Our experience in mechanizing accounting. Den. i kred. 13 no.5:25-29
My '55. (MIRA 8:7)
(Banks and banking—Accounting) (Machine accounting)

SHLYAKHETKO, V.

Improve accounting for and control over interbranch correspond-
ence. Den. i kred. 18 no.1:68-69 Ja '60. (MIRA 13:1)
(Ukraine-Banks and banking--Accounting)
(Machine accounting)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720006-7

MOROZOV, Yu.I., inzh.; SHLYAKHETKO, Yu.L., inzh.

Cooling sani falling in a shaft. Mashinstroenie no.4:73 Jl-Ag '65.
(MIRA 18:8)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720006-7"

Shlyakhin, P.N.
ARKHAROV, V. I.; CHUKINA, T. P.; SHLYAKHIN, P.N.

Application of Gas Chrome Plating for Longer Serviceability of Machine Parts.

Elektrostants. 16, No. 3, 12, 1945

SHLYAKHIN, P. N.

USER/Engineering
Turbines

Electric Power Stations

Jun 49

"Operation of Steam Turbine Using Steam Pressures
Above the Rated," P. N. Shlyakhin, Cand Tech Sci, 5 pp
"Elek Stants" No 6

Operation of a turbine with qualitative regulation
at increased steam pressure is possible without
overloading its parts. In transferring a turbine
to higher steam-pressure operation, it is necessary
to change the operation of steam-distribution
mechanisms by increasing the overlap of the second-
group valve or providing for simultaneous opening
of the first- and second-group valves with the
necessary change in overlap for remaining valves.
When pressure is increased 2-4 atm, steam tempera-
ture should be increased 10-20° C.

53/49T48

SHLIAKHIN, F. N.

Parovye turbiny. Utverzhdeno v kachestve uchebn. posobiia dlja energ. tekhnikumov.
Moskva, Gosenergoizdat, 1950. 243 p. diagrs.

Bibliography: p. 243.

Steam turbines.

DLC: TJ735.S513

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

SHLYAKHIN, P. N.

USSR / Electricity - Turbines
Power Stations

Jun 50

"Turbine Operation With a Spacer Removed From the Intermediate Stage," P. N. Shlyakhin, Cand Tech Sci

"Elek Stants" No 6, pp 9-11

Describes how throttling plate is sometimes inserted in intermediate stage of turbine to replace spacer which has been temporarily removed. Gives experimental details which show that in the case of a multistage turbine with spacer removed from 3d, 4th, or 5th stage, it is more economical to run turbine

162T19

USSR / Electricity - Turbines (Contd)

Jun 50

without inserting throttling plate. Recommends settings to be used when operating turbines in this condition.

162T19

SHLYAKHIN, I. . .

Technology

Special cycles of operations of steam turbines, Moskva, Gosenergoizdat, 1951.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, December 1952. Uncl.

BUKININ, P. N.; BULGAKOV, V. I., Eng.

Electric Welding

Strengthening turbine blades by electric arc welding against dangerous vibration. Elek. sta. 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified. C4P

SHLYAKHIN, P. N.

AID P - 729

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 22/26

Author : Shlyakhin, P. N.

Title : The character of operation of the CR-26 (AP-4) turbine,
built by the Kirov Works

Periodical : Energetik, 9, 34-35, S 1954

Abstract : In reply to a reader's question, the author briefly
explains the character and conditions of operation
of this extraction turbine.

Institution : None

Submitted : No date

SHLYAKHIN, P.N.

AID P - 1167

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 20/31

Author : Shlyakhin, P. N., Eng.

Title : Explaining the new "Rules for technical operation of electric power stations and networks". Chapter fourteen. Steam turbine installations

Periodical : Energetik, 11, 32-34, N 1954

Abstract : The author explains briefly the application of the above rules.

Institution : None

Submitted : No date

SHLYAKHIN, Pavel Nikolayevich; KIRSANOV, I.N., redaktor; LARIONOV, G.Ye.,
tekhnicheskiy redaktor.

[Steam turbines] Parevye turbiny. Izd. 2-e, perer. i dop. Moskva,
Gos. energ. izd-vo, 1956. 232 p. (MLRA 9:5)
(Steam turbines)

SHLYAKHIN, P.N., kandidat tekhnicheskikh nauk.

VRT-25 turbines manufactured by the Kharkov Turbogenerator
Plant. Teploenergetika 3 no.12:56 D '56. (MLRA 9:12)
(Steam turbines)

SHLYAKHIN, Pavel Nikolayevich; LEVENSON, I.S., red.; VORONIN, K.P.,
tekhn. red.

[Steam turbines] Parovye turbiny. Izd.3., ispr. i dop. Moskva,
Gos.energ.izd-vo, 1960. 255 p. (MIRA 13:7)
(Steam turbines)

SHLYAKHTIN, Pavel Nikolayevich; BERSHADSKIY, Mikhail Leonidovich;
KURITS, S.Ya., red.; BORUNOV, N.I., tekhn. red.

[Brief manual on steam-turbine systems] Kratkii spravochnik po
paroturbinnym ustanovkam. Moskva, Gos. energ. izd-vo, 1961.
127 p. (MIRA 15:2)
(Steam turbines)

RUNOV, Boris Tikhonovich; SHLYAKHIN, P.N., red.; BUL'DYAYEV, N.A.,
tekhn. red.

[Balancing of turbogenerators in electric power plants]
Uravneniye turboagregatov na elektrostantsiiakh. Mo-
skva, Gosenergoizdat, 1963. 223 p. (MIRA 16:6)
(Turbogenerators)

KIRSANOV, Igor' Nikolayevich; SHLYAKHIN, P.N., red.

[Condensing systems] Kondensatsionnye ustavki. Mo-
skva, Energiia, 1965. 375 p. (MIRA 18:6)

LYUBCHANSKAYA, L.I.; SHLYAKHMAN, A.A.; KUZ'MINSKIY, A.S.

Apparatus for testing axial compression stress relaxation of elastic materials. Kauch. i rez. 16 no.2:31-33 F '57. (MIRA 12:3)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.
(Rubber, Testing)

AUTHORS: Shlyakhman, A. A. and Lepetov, V. A. SOV/138-59-2-10/24

TITLE: Calculations on Hosepipes in Flexure (K vopros rascheta rukavov na izgib)

Part I. Relation Between the Radius of Curvature on the Longitudinal Axis of the Pipe, the Properties of the Material and the Geometrical Section of the Hosepipe (Soobshcheniye I. Zavisimost' mezhdu radiusom krivizny prodol'noy osi rukava, kharakteristikami materiala i geometriyey secheniya rukava)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 34-38 (USSR)

ABSTRACT: There is a need to establish methods of calculating the minimum bend radius to which hose can be subjected without permanent deformation of its cross-section and to ensure the required length of service at normal and at low temperatures. A mathematical calculation is given to establish the relations between longitudinal bend radius and deformation of the cross-section for pipe of given material and construction. From Eq (8) the reaction force R_ϕ (see Fig 2) acting on the periphery of the hose for a given bend radius, and the sinusoidal pressure distribution shown in Fig 3, can be deduced.

Card 1/3 The deformation of the horizontal diameter can be found

SOV/138-59-2-10/24

Calculations on Hosepipes in Flexure. Part I. Relation Between the Radius of Curvature on the Longitudinal Axis of the Pipe, the Properties of the Material and the Geometrical Section of the Hosepipe

from Eq (19), where E_p is the modulus of elasticity of the hose as a whole, and $E_k I_k$ is the stiffness of an annular section of thickness d and width t , r is the radius of the hose and ρ the bend radius. The deformation on the vertical diameter is found from Eq (21) to be the same as that on the horizontal one. From Eq (25) the bend radius for any given relative deformation $\epsilon_p = (\Delta r/r)$ can be found. The critical value of ϵ_p can be found by calculation or established experimentally, hence a critical (minimum) bend radius can be established for a given condition. The strain ϵ_k of the fibres in an annular cord, when z is the coordinate of the thickness of the ring, is related to the radial deformation ϵ_p by Eq (29). Knowing the critical value of deformation for a cord in an annular section, the critical radial deformation ϵ_p^{cr} can be deduced from Eq (31). In an example given, the critical

Card 2/3

SOV/138-59-2-10/24

Calculations on Hosepipes in Flexure. Part I. Relation Between the Radius of Curvature on the Longitudinal Axis of the Pipe, the Properties of the Material and the Geometrical Section of the Hosepipe

cord strain ϵ_k at the limit of proportionality is taken at 11×10^{-4} . With a 25 mm diameter hose with annular cords of 1 mm diameter, ϵ_p^F is 1%. From these critical values of radial strain or deformation, critical bend radii of the hose can be found from Eq (25). There are 4 figures and 12 references, 8 of which are Soviet, 3 English, 1 German.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific-Research Institute for the Rubber Industry).

Card 3/3

SHLYAKHMAN, A.A.; LEPETOV, V.A.; LEONOV, I.I.

Hydraulic strength of hose with metal braiding. Kauch. i rez.
23 no. 3:37-40 Mr '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

SHLYAKHMAN, A. L.

PA 46/49T69

USSR/Medicine - Ionization, Therapeutic Feb 49
Medicine - Angina Pectoris, Therapy

"Reflexogenic Treatment of Angina Pectoris With
Iontophoresis," A. L. Shlyakman, First Chair of
Internal Diseases, Cen Inst of Advancement for
Doctors, 1 p

"Sov Med" No 2

Discusses symptoms, cases and treatment of angina
pectoris. Reveals that iontophoresis with dionin
is a reflexogenic treatment for stenocardia and
produces organic or functional changes in
coronary vessels. Treatment with iontophoresis

46/49T69

USSR/Medicine - Ionization, Therapeu- Feb 49
tic (Contd)

results in disappearance of hyperesthetic and
hyperalgesic areas. Iontophoresis with dionin is
more effective than iontophoresis with novocaine.

46/49T69

SHLYAKHMAN, A. L.

"Etiology of Sarcoma of the Pericardium," Klin. Med., 27, No 11, 1949

Central Inst. Advanced Training for Physicians (mbr., 1st. chair Therapy,
mbr., 1st, chair internal Diseases)

SHILYAKHMAN, A. I.

Materialistic bases of the Pavlovian physiological theory.
Klin. med. Moskva 30 no.3:12-18 Mar 1952. (CLML 22:2)

1. Of the First Therapeutic Department (Head -- Honored Worker
in Science Prof. M. S. Vovsi, Active Member AMS USSR), Cen-
tral Institute for the Advanced Training of Physicians. 2.
Author is from Moscow.

SHMELEV, N.A., professor; SHLYAKHMAN, A.L.; GAVRILOV, I.S.; GOLENITSKAYA,
O.N.; MYASNIKOV, A.L., professor.

Extrapulmonary tuberculosis with hepato-lienal syndrome. Terap.arkh. 25
no.2:89-90 Mr-Ap '53. (MLRA 6:5)
(Liver--Tuberculosis) (Spleen--Tuberculosis)

SHLYAKHMAN, A.L.; GRISHINA, V.I.; SHNOL', S.E.

Studies on the distribution and chemical conversion of novocaine
in the rat organism. Vop.med.khim. 5 no.6:422-428 N-D '59.
(MIRA 13:3)
1. Kafedra l-y terapii i kafedra meditsinskoy radiologii TSentral'-
nogo instituta usovershenstvovaniya vrachey, Moskva.
(PROCAINE metab.)

ZHUKHOVITSKIY, A.A.; TURKEL'TAUB, N.M.; SHLYAKHOV, A.F.

Analysis of some low boiling gases with the use of molecular
sieves and complexing agents. Khim.i tekhn.topl.i masel 7
no.6:7-11 Je '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy
geofiziki i geokhimii Ministerstva geologii i okhrany nedr
SSSR.

(Gases--Analysis)

ZHUKHOVITSKIY, A.A.; TURKEL'TAUB, N.M.; MALYASOVA, L.A.; SHLYAKHOV, A.F.;
NAUMOVA, V.V.; POGREBNAYA, T.I.

Chromatography without gas carriers. Zav. lab. 29 no.10:1162-
1166 '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy
geofiziki i geokhimii.

L 36479-65

ACCESSION NR: AP5010010

UR/0204/64/004/004/0645/0649 /7

B

AUTHOR: Zhukhovitskiy, A. A.; Turkel'taub, N. M.; Shlyakhov, A. F.

TITLE: Method of preparation of dilute gas mixtures for chromatographic investigations

SOURCE: Neftakhimiya, v. 4, no. 4, 1964, 645-649

TOPIC TAGS: gas chromatography, gas analyzer, gas analysis, gas

Abstract: The calibration of highly sensitive gas analyzers (in particular, chromatographs) requires the preparation of samples with hydrocarbon concentrations of 10^{-4} - $10^{-6}\%$. A method has been developed for the continuous production of dilute gas mixtures with a constant concentration of the components (10^{-4} - $10^{-5}\%$). The proposed method is based on the diffusion of vapors (through a capillary into a flux of the carrier gas) of any substances existing in equilibrium with a liquid that is a good solvent for them. The error in the preparation of the mixture does not exceed 30-40%; thermostatic control of the instrument in the nonworking state as well (for example, at 0°) raises the accuracy of the method. Mixtures produced by this method are sufficiently accurate for the calibration of highly sensitive gas analyzers.

Orig. art has 1 figure, 4 formulas, and 2 tables.

Card 1/2

L 36479-65

ACCESSION NR: AP5010010

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i
geokhimii (All-Union Scientific Research Institute of Nuclear Geophysics and Geo-
chemistry)

SUBMITTED: 02Jan63

ENCL: 00 SUB CODE: GC

NO REF Sov: 000

OTHER: 006 JPS

Card 2/2

ZHUKHOVITSKIY, A.A.; SHILOKHA, N.S.; TURKEL'TAUB, N.M.; SHVARTSMAN, V.P.;
SHLYAKHOV, A.F.; SMIENOVA, I.A.

Chromatography without gas carrier and the phenomenon of adsorp-
tion substitution. Zav. lab. 30 no.11:1308-1313 '64
(NIRA 18:1)

SILYAKHOV, A.E.

Preparative separation of light saturated hydrocarbons in gas-adsorption chromatography. Gaz. delo no.5:33-36 '65.

(MIRA 18:6)

1. VNIITYaG.

ZHUKHOVITSKY, A.A.; SAZONOV, M.L.; SHLYAKHOV, A.F.; KARYMOVA, A.I.

Development chromatography without a gas carrier. Zav. lab. 3l
no. 9:1048-1052 '65.
(MIRA 18:10)

DRAFT

"Anthrax," by E. N. Shlyakhov. Sanitarno-Epidemiologicheskaya Stantsiya (Sanitary-Epidemiological Station), Medgiz, Moscow, 1955

In discussing the protection of humans against anthrax, the following mention is made of the use of STI vaccine:

"At present, prophylactic vaccination is carried out with the live STI vaccine prepared by the Soviet scientists N. N. Ginsburg, A. L. Tamarkin, and their coworkers from an avirulent strain obtained by selection from noncapsular variants of *B. anthracis*. The dry live vaccine is a dried suspension of spores of the NIIEG vaccine strains.

"The use of this vaccine on agricultural animals showed it to be highly effective and completely harmless.

"This vaccine is also administered to humans subcutaneously and by scratch application.

"Vaccination of humans is carried out in enterprises engaged in the processing of raw animal products and hides and in meat combines.

Agricultural personnel coming in contact with domestic animals or raw animal products in places where anthrax is endemic are vaccinated. In addition, vaccination is given when epidemiological indexes indicate its necessity, i.e., in "fresh" foci of the disease, etc.

"Vaccination is carried out once, preferably subcutaneously.

"The method of vaccination is indicated in the instructions attached to the vaccine ampule.

"Generally, cutaneous application does not produce any specific reaction; subcutaneous inoculations are accompanied in isolated instances by general reactions which are expressed as indisposition, headache, and a slight increase in temperature. All these phenomena disappear within 2 or 3 days.

"Supervision of vaccinations by a doctor has been established. The registration of persons vaccinated and a record of the results of examinations after vaccination are entered in the appropriate journal of vaccinations where the name of the vaccine, the serial number, the method of administration, and the date of the inoculation should be indicated."

SHLYAKHOV, R.N.

Letter to the editor. Zhur. mikrobiol. epid. i immun. no.1:40-42
Ja '55. (MLRA 8:2)
(COMMUNICABLE DISEASES,
classif.)

SHLYAKHOV, E.N.; ZHITOMIRSKIY, V.K.[deceased]; TARKOV, M.I.; SUSLO,
N.Ya; D'YAKOVA, V.S.

Active diagnosis of dysentery. Zhur.mikrobiol.epid. i immun.
no.8:103-104 Ag '55. (MLRA 8:11)
(DYSENTERY--DIAGNOSIS)

SHLYAKHOV, E.N.

USSR/Microbiology - Medical and Veterinary Microbiology

F-4

Abs Jour : Referat Zhurn - Biol., No 16, 25 Aug 1957, 68620

Author : Shlyakhov, E.N., Zhitomirskiy, V.K., Tarkov, M.I.,
Suslova, N.Ya., Dyakova, V.C.

Title : The Active Exposure of Dysentery Bacteria Excretors in
some Ordinarily Uninvestigated Population Groups.

Orig Pub : Sb. tr. Mold. n.-i. in-t Epidemiol., mikrobiol. i
gigieni, 1956, No 1, 91-98

Abstract : The relative frequency of dysentery bacteria-carriers
was investigated in several ordinarily uninvestigated
groups of the population, for instance, pregnant wo-
men, confined ones, patients in surgical and therapeu-
tic departments, patients with diseases of the diges-
tive organs, also different ordinary diseases, and fi-
nally patients with infectious hepatitis. The huge
majority of excretors are persons of 18-42 (85%).
The main mass of people investigated (63.5%) were

Card 1/3

- 65 -

USSR/Microbiology - Medical and Veterinary Microbiology

F-4

Abs Jour : Referat Zhurn - Biol., No 16, 25 Aug 1957, 68620

confined women. Most bacteria excretors belong to this group. The frequency of detection of dysentery bacteria excretion in pregnant women is 3.7%, in women in confinement, 9.9%. The excretion of dysentery bacilli among pregnant and confined women investigated was observed 4-5 times oftener than among normal ones. In bacteriological investigation of surgical and therapeutic patients predominately with diseases of digestive organs, patients with infectious hepatitis also manifested a large number of excretors of dysentery bacilli. The frequency of detection of carriers was least in May and sharply increased in September. The majority of isolated types belongs to the type of Flexner bacteria (89.1%), 9.2% to Newcastle and 1.7% to Sonne. The authors consider that for the purpose of exposure of dysentery bacteria carriers, a triple inspection in infectious disease departments of hospitals should be made for dysentery

Card 2/3

- 66 -

Soly Khol E. L.
EXCERPTA MEDICA Sec.17 Vol.4/4 Public Health,etc.Apr 58

1309. THE WORK OF A DEPARTMENT OF INTESTINAL INFECTIONS ATTACHED TO A PEDIATRIC POLICLINIC (Russian text) - Shlyakhov E. N. and Popik A. L. - SBORN. TRUD. MOLDAVSK. INST. EPIDEM. MIKROBIOL., GIG. 1956, 1 (105-108)

The authors organized a department of intestinal infections at a children's polyclinic as a measure against gastro-intestinal disorders of bacterial, protozoan and helminthic aetiology. The work of this department consisted of early diagnosis of dysentery, timely admission to hospital, out-patient supervision of convalescents and patients with the chronic forms of dysentery and other intestinal disorders. As the result of the work of the department the incidence of dysentery dropped by 48% and of acute intestinal infections generally by 40% as compared with 1952. (S)

YEZHOV, N.N.; MUNTYAN, Ye.N.; SHLYAKHOV, E.N.

Effective cleaning of medical instruments as a prophylactic measure
against parenteral infection with Botkin's diseases. Sov.med. 20
no.10:79-82 O '56. (MIRA 10:1)

1. Iz Moldavskogo nauchno-issledovatel'skogo instituta epidemiologii,
mikrobiologii i gigiyeny.

(INFECTIOUS HEPATITIS, prev. and control.

mechanical cleaning of instruments used for parenteral
infusions)

(INFUSIONS, PARENTERAL, appar. and instruments
mechanical cleaning in prev. of infectious hepatitis)

~~SHLYAKHOV, E.N.; SAVICHIEVA, A.G.; KHODOROVSKIY, A.Ya.~~

Varioloid in milkmaids in connection with smallpox in cows. Zhur.
mikrobiol.epid. i immun. 27 no.7:55-58 Jy '56. (MLRA 9:9)

1. Iz Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(SMALLPOX

in cows causing varioloid in milkmaids)

(CATTLE, dis.

smallpox in cows causing varioloid in milkmaids)

(OCCUPATIONAL DISEASES

varioloid in milkmaids caused by smallpox in cows)

SHLYAKHOV, E.N.

"Brucellosis in man." Alecsandru Pop, Benedict Isac [in Rumanian].
Reviewed by E.N.Shliakhov. Zhur.mikrobiol., epid. i immun. 27 no.8:
117-118 Ag '56. (MIRA 9:10)
(BRUCELLOSIS) (POP, ALECSANDRU) (ISAC, BENEDICT)

68. STI Vaccines Described in Lecture on Anthrax for Doctors

"Anthrax (Material for a Lecture for Medical Doctors)," by
E. N. Shlyakhov (Kishinev), Zhurnal Mikrobiologii, Epidemi-
ologii i Immunobiologii, No 5, May 57, pp 130-138

The work gives a comprehensive review of the history, world-wide distribution, causative agent, natural sources, epidemiology, pathogenesis, clinical manifestations, prophylaxis, and treatment of anthrax in agricultural animals and humans. One paragraph is devoted to the use of anthrax as a bacteriological weapon by the Japanese in World War II, and repeats the allegations against the US in the Korean conflict. The work at Camp Detrik on anthrax is cited.

The author says that the STI vaccine for animals currently in use in the USSR "is prepared from bacteria, which, in distinction from previously used vaccines (Tsenkovskiy I and II, and the Saponin vaccine), do not form capsules even in the animal organism. The STI vaccine is administered once; it is avirulent and highly immunogenic."

In discussing the prophylaxis of anthrax among humans, the following statement is made: "At present in the USSR, the STI antianthrax live vaccine for humans has been used successfully. This vaccine consists of a suspension of a mixture of the live spores of the NIEG anthrax vaccine strains developed in 1940 by Ginsburg and in 1941 by Tamarin having a hereditarily reinforced attenuated virulence while maintaining their immunogenicity. The vaccine is administered in appropriated doses subcutaneously or cutaneously (scarification method). The vaccine is harmless, almost areactive, and well tolerated by humans."

The article is followed by a recommended reading list and a bibliography. (U)

54071439

NAZARETYAN, Ye.L.; ANAN'YEV, V.A.; SHLYAKHOV, E.N.

Clinical and epidemiological achievements in the prevention of
Botkin's disease. Sov.med.21 no.3:103-107 Mr '57. (MIRA 10:7)

1. Iz laboratorii deystvitel'nogo chlena Akademii meditsinskikh
nauk SSSR prof. Ye.M.Tareyeva, Instituta virusologii Akademii
meditsinskikh nauk SSSR i Instituta epidemiologii, mikrobiologii
i gigiyeny Moldavskoy SSR.
(HEPATITIS, INFECTIOUS, prev. and control)

SHLYAKHOV, E.N.

Distribution, epidemiological characteristics, and control of
anthrax in foreign countries. Zhur.mikrobiol.epid. i immun.
28 no.11:137-143 N '57. (MIRA 11:3)

1. Iz Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(ANTHRAX, epidemiology,
in various countries (Rus)

SHLYAKOV, E. N.

"Spreading of Malignant Anthrax throughout the World."

report presented at a Scientific Conference on Medical Geography Inst. "Mikrob".
Saratov, 25 Jan - 2 Feb 1957 (Izv. Ak Nauk SSSR, Ser Geog, No. 2, '58, pp 153-55,
author: Kucheruk, V. V.).

SHLYAKHOV, E.N. (Kishinev)

Diphtheria in Moldavia and methods for reducing its incidence. Zdravookhranenie 2 no.1:39-42 Ja-F '59. (MIR 12:7)
(MOLDAVIA--DIPHTHERIA)

ANAN'EV, V.A.; SHLYAKHOV, E.N.

"Laboratory diagnosis of the inframicrobioses of man" [in Romanian]
by N. Gajal. Reviewed by V.A. Anan'ev, E.N. Shliakhov. Vop. virus
4 no.1:115 Ja-F '59. (MIRA 12:4)

(VIRUS DISEASES) (RICKETTSIAL DISEASES)
(GAJAL, N.)

ALEKSANDROV, N.I., general-major meditsinskoy sluzhby; GEFEN, N.Ye., polkovnik meditsinskoy sluzhby; GARIN, N.S., podpolkovnik meditsinskoy sluzhby; GAPOCHKO, K.G., podpolkovnik meditsinskoy sluzhby; SERGEYEV, V.M., pdopolkovnik meditsinskoy sluzhby; TAMARIN, A.L., polkovnik meditsinskoy sluzhby; SHLYAKHOV, E.N., kand.med.nauk

Experience in massive aerogenic vaccination against anthrax. Voen.-med.zhur. no.8:23-32 Ag '59. (MIRA 12:12)
(ANTHRAX, immunology)
(VACCINATION)

SHLYAKHOV, E.N.

"Zoonoses" by G.P. Rudnev. Reviewed by E.N. Shlyakhov. Zhur.mikro-
biol., epid.i immun. 30 no.12:133-135 D '59. (MIRA 13:5)
(ANIMALS AS CARRIERS OF DISEASES)
(RUDNEV, G.P.)

RYAZANTSEVA, N.Ye.; REVENOK, N.D.; SHROYT, I.G.; SHLYAKHOV, E.N.

A study of the immunological relation between measles and canine distemper viruses. Report No.1: Infection of puppies with canine distemper virus following experimental measles. Vop.virus. 6 (MIRA 14:7) no.5:577-582 S-0 '60.

1. Laboratoriya kori Instituta virusologii AMN SSSR, Moskva, i Moldavskiy institut epidemiologii, mikrobiologii i gigiyeny.
(MEASLES) (DISTEMPER)

SHLYAKHOV, E.N.; GEKHTMAN, M.Ya.; BONDURYANSKIY, I.P.

Further research on the epidemiology of Botkin's disease in the
Moldavian S.S.R. Trudy Kish.gos.med.inst. 11:71-86 '60.
(MIRA 16:2)
I. Otdel epidemiologii Moldavskogo instituta epidemiologii, mikro-
biologii i gigiyeny i kafedra organizatsii zdravookhraneniya
Kishinevskogo gosudarstvennogo meditsinskogo instituta.
(MOLDAVIA--HEPATITIS, INFECTIOUS)

SHLYAKHOV, E.N.; BONDURYANSKIY, I.P.; GROYSMAN, G.M.; OSTAPENKO, M.G.;
LITVIK, Ye.N.; KONDRAT'YEVA, L.I.; LEEENZON, N.P.; SHPANIR, Ye.I.

Use of gamma globulin for the prevention of infectious hepatitis
in pediatric institutions. Trudy Kish.gos.med.inst. 11:101-104
'60. (MIRA 16:2)

1. Otdel epidemiologii Moldavskogo nauchno-issledovatel'skogo
instituta epidemiologii, mikrobiologii i gigiyeny, Kishinevskaya,
Bel'tskaya, Orgeyevskaya i Respublikanskaya sanitarnaya epidemi-
logicheskaya stantsiya.
(HEPATITIS, INFECTIOUS--PREVENTIVE INOCULATION)
(GAMMA GLOBULIN)

SHLYAKHOV, E.N.

Diagnosis of anthrax in man by the use of "anthraxine" -
the anthrax allergen. Trudy Kish.gos.med.inst. 13:153-156 '60.
(MIRA 16:2)

1. Moldavskiy institut epidemiologii, mikrobiologii i gigiyeny.
(ANTHRAX)

SHLYAKOV, E.N.; SHROIT, I.G.; GUZ, Ye.V.; KAZARNOVSKAYA, M.L.

Primary intestinal form of anthrax. Zdravookhranenie 4 no. 1:58-
59 Ja-F '61. (MIRA 14:2)

1. Iz Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny
(direktor - N.N. Yezhov) i Kishinevskogo meditsinskogo instituta
(direktor - N.A. Testemitsanu).
(ANTHRAX)

YERMOL'YEVA, Z.V.; SHLYAKHOV, E.N.

"Physiology of bacteria" by L.Mesrobeanu, E. Paunescu. Reviewed
by Z.V.Ermol'eva, E.N.Shliakhov. Antibiotiki 6 no.1:93-94 Ja '61.
(MIRA 14:5)

(BACTERIA) (MESROBEANU, L.) (PAUNESCU, E.)

ALEKSANDROV, N.I.; GEFFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; SERGEEV, V.M.;
LAZAREVA, Ye.S.; MISHCHENKO, V.V.; SHLYAKHOV, E.N.

Aerosol immunization with dry live vaccines and anatoxins. Report
No.6: Study of the reactogenic and immunological effectiveness of
aerosol immunization with spray vaccines (brucellosis, tularemia,
anthrax and plague) in man. Zhur. mikrobiol. epid. i imun. 32
no.7:56-62 Je '61. (MIRA 15:5)

(VACCINATION) (AEROSOLS)
(COMMUNICABLE DISEASES--PREVENTION)

STAROSTENKO, N.T.; SHLYAKHOV, E.N.; DROBINSKIY, I.R.; BONDURYANSKIY, I.P.; VIZITIU, A.F.; SHROYT, I.G.; ZHITAR', V.D.; KOROVINA, T.V.; LEBENZON, N.N.

Botkin's epidemic hepatitis in Moldavia and measures for its control. Zdravookhranenie 5 no.3:33-38 My-Je '62. (MIRA 16:1)

1. Iz kafedry fakul'tetskoy terapii, infektsionnykh bolezney, mikrobiologii, gospital'noy terapii Kishinevskogo meditsinskogo instituta (rektor - dotsent N.A. Testemitsanu), Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny (direktor - dotsent N.N. Yezhov) i Kishinevskogo gorodskogo otdela zdravookhraneniya (zav. - P.P. Kozishkurt). Nauchnyy rukovoditel' zasluzhennyy deyatel' nauki prof. N.T. Starostenko.

(MOLDAVIA--HEPATITIS, INFECTIOUS)

SHLYAKHOV, E.N.; SHROIT, I.G.

Anthrax. Biological and immunological principles of diagnosis and prevention. II. Pathomorphological changes in skin in the anthraxin allergy test. J. hyg. epidem. (Praha) 8 no.3:307-312 '64

1. Moldavian Institute of Epidemiology, Microbiology and Hygiene, Kishinev.

SHLYAKHOV, E.N., red.; SYRTSOVA, S., red.

[Anthrax; problems of immunology, clinical aspects and laboratory diagnosis] Antraks; voprosy immunologii, kliniki i laboratornoi diagnostiki. Kishinev, Kartia moldoveniaske, 1964. 162 p. (MTRA 18:10)

1. Kishinev. Moldavskiy institut epidemiologii, mikrobiologii i igiyeny.

L 43897-65 EWA(b)-2/EWA(j)/EWT(l) Pa-4 JK

ACCESSION NR: AP5008019

S/0016/65/000/003/0106/0111

24

AUTHOR: Shlyakhov, E. N.; Shroyt, I. G.; Burdenko, T. A.

23

B

TITLE: The dynamics of immuno-allergic and morphological reactions
in experimental anthrax vaccination

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no.
3, 1965, 106-111

TOPIC TAGS: guinea pigs, anthrax, anthrax vaccine, immunization,
vaccination, morphology, mitosis, epidemiology

ABSTRACT: The present study investigated the immuno-allergic and
morphological changes in the organism of anthrax vaccinated animals
to determine whether they reflect two sides of the same process. Two
groups of experimental guinea pigs weighing 300-350 g were vaccinated
subcutaneously in the groin with different doses of SIT-1 anthrax
vaccine (40 million spores and 1 million spore doses). Anthraxin
tests were performed on animals from each group at regular periods
from 2 to 115 days after vaccination. In addition to a morphological
examination of spleen and lymph sections, mitotic activity of spleen

Card 1/3

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ACCESSION NR: AP5008019

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cells was determined. Indices for the immuno-allergic and morphological changes were statistically processed and compared. In animals vaccinated with a large SIT-1 anthrax vaccine dose, mitotic activity started to increase immediately after vaccination and reached a maximum by the end of the first month. At the same time the number of cellular degenerative changes including pyroninophilia and plasmatization also increased. Both processes were normalized by the end of the second month. In animals vaccinated with a small SIT-1 anthrax vaccine dose, mitotic activity and degenerative changes of cells did not differ significantly from those of control animals. A definite chronological relationship was established between the development of immuno-allergic and morphological changes in cells in response to antigen administration depending on dose. These reactions resulting from the successive involvement of different links of the adaptive mechanisms appear to reflect two sides of the same process in which the body interacts with external factors. Orig. art. has: 3 tables and 1 figure.

Card 2/3 Submitted 01 Aug 64

SHLYAKHOV, I. H.

PHASE I BOOK EXPLOITATION

SOV/6215

Yegorov, Pavel Timofeyevich, Ivan Alekseyevich Shlyakhov, Terentiy Vasil'yevich Dolbnin (Deceased), and Viktor Stepanovich Mordvinov

Grazhdanskaya oborona (Civil Defense). Moscow, Gosizdat "Vysshaya shkola," 1962. 363 p. 40,000 copies printed.

Ed.: A. P. Martynov; Tech. Ed.: L. L. Yezhova.

PURPOSE: The book is intended as a textbook on civil defense for use in schools of higher education.

COVERAGE: The book includes necessary information on modern means of aerial attack, data on ordinary aerial bombs, and data on chemical, biological, and radiological (CBR) weapons taken from the literature of non-Soviet bloc countries. The problems of organizing civil defense are dealt with, and the steps to be taken in towns and other populated areas in order to reduce the danger of destruction of population and economic targets are discussed. Reconnaissance to determine extent and location of

Card 1/12

S/056/63/044/004/012/044
B102/B186

AUTHOR: Golovnya, V. Ya., Klyucharev, A. P., Shilyayev, B. A.,
Shlyakhov, N. A.

TITLE: Elastic scattering of 4.2-Mev protons from nickel isotopes

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
no. 4, 1963, 1184 - 1186

TEXT: The angular distributions of 4.2-Mev protons elastically scattered from Ni^{58,60,62,64} nuclei were measured in the interval 30 - 80° in the lab system. The method was the same as described previously (ZhETF, 41, 32, 1961). A CsI(Tl) scintillator crystal with an $\phi\gamma$ -C (FEU-S) photomultiplier was used for detection; the targets were free metallic foils (1.0-1.5 μ) enriched to 95%. The total error was $\pm 1\%$. The results are shown in a graph, with σ_{exp}/σ_R plotted versus θ , i.e. for each angle the number of particles scattered by the nickel target under investigation was compared with the corresponding value for gold, for which at the given energies the distribution follows Rutherford's formula (Phys. Rev. 1602, 1957). The distribution curves obtained for Ni⁵⁸ and Ni⁶⁰ differ greatly from those for Card 1/2

Elastic scattering of 4.2-Mev...

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B102/B186

Ni⁶² and Ni⁶⁴. In the first case $\sigma_{\text{exp}} > \sigma_R$ for angles below 60 - 70°, and the angular distribution has a maximum; in the second case there is always $\sigma_{\text{exp}} < \sigma_R$, and σ_{exp} decreases with increasing θ. This difference can be explained when the nuclear surface of Ni⁶² and Ni⁶⁴ is assumed to be much more smeared out as compared with that of Ni⁵⁸ and Ni⁶⁰; even the surface of Ni⁶⁰ is more distinct than that of Ni⁵⁸. There is 1 figure.

SUBMITTED: November 21, 1962

Card 2/2

V. Ya.; KLYUCHAEV, A. P.; S. LYAYEV, B. A.; SHLYAKHOV, N. A.

"Elastic Scattering of Protons at Energies 3.0 - 4.0 MeV on Cobalt and Isotopes of Chromium, Iron, and Copper."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

KhFTI (Ukrainian Physico Technical Inst, Khar'kov)

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ACCESSION NR: AP5007705

S/0367/65/001/001/0048/0054

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B

AUTHOR: Golovnya, V. Ya.; Klyucharev, A. P.; Shilyayev, B. A.; Shlyakhov, N. A.

TITLE: Elastic scattering of low-energy protons on isotopes of chromium, iron,
nickel, and cobalt

SOURCE: Yadernaya fizika, v. 1, no. 1, 1965, 48-54

TOPIC TAGS: nuclear radius, low energy proton, proton scattering, proton elastic
scattering, nuclear force range, chromium target, iron target, nickel target,
cobalt target

ABSTRACT: The systematic study of elastic scattering of low-energy protons on
atomic nuclei can supply important data about the structure of the nuclear surface
(ZhETF, 44, 1184, 1963). The authors also showed earlier (ZhETF, 45, 1727, 1963),
using the initial deviations of the angular distribution curves of elastic proton
scattering from the Rutherford law in its quasiclassical approximation, that the
radii of nuclear interactions of the incident protons on Ni^{62} and Ni^{64} seem to
exceed the usual nuclear radii R by a factor of 3. Before one could attempt a
correct interpretation of these results, one had to possess data from analogous

Card 1/2

L 41005-65

ACCESSION NR: AP5007705

5

experiments on nuclei with known sharp and washed-out boundaries. Consequently, the angular distributions of protons with energies of 3.00-3.56 MeV elastically scattered by the isotopes Cr⁵⁰, 52, 53, 54, Fe⁵⁴, 56, Ni⁵⁸, 60, 62, 64, and Co⁵⁹ were investigated in the region of 40-90° angles. The results obtained show that the angular distribution curves in this domain of angles are very sensitive to the structure of the nuclear surface. The nuclear interaction radii calculated in the quasiclassical approximation from the experimental data do not vary monotonously with the mass number. These results are collected in Fig. 1 of the Enclosure. The observed dependence can be linked to the filling of the nucleon shells within the investigated nuclei. "The authors thank V. N. Medyanik and L. G. Lishenko for the preparation of the targets and A. A. Tsigikalo, Yu. A. Kharchenko, and the personnel of the ESG for maintaining a stable operation of the accelerator." Orig. art. has: 5 formulas and 4 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut Akademii nauk Ukrainskoy SSR (Physico-Technical Institute of the Academy of Sciences, Ukrainian SSR)

SUBMITTED: 03Jun64

ENCL: 01

SUB CODE: NP

NO REF SOV: 004

OTHER: 001

Card 2/3